



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	CF6-80C2B4F	BYPASS RATIO:	5.1
UNIQUE ID NUMBER:	2GE047	PRESSURE RATIO (π_{00}):	30.2
COMBUSTOR:	1862M39		
ENGINE TYPE:	TF	RATED THRUST (F_{00}) (kN):	254.8

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	2.6	28.2	48.1	8.1
AS % OF ORIGINAL LIMIT	13.3	23.9	47.8	44.2
AS % OF CAEP/2 LIMIT (NO _x)			59.8	
AS % OF CAEP/4 LIMIT (NO _x)			71.3	
AS % OF CAEP/6 LIMIT (NO _x)			80.9	
AS % OF CAEP/8 LIMIT (NO _x)			95.1	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.432	0.05	0.04	25.08	6.9
CLIMB OUT	85	2.2	1.983	0.05	0.04	19.72	4.5
APPROACH	30	4.0	0.650	0.11	2.13	12.47	0.0
IDLE	7	26.0	0.199	1.54	19.23	4.73	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			830	513	6317	11137	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				4	4	4	4
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				2.0	24.7	43.7	6.9
SIGMA (D _p /F ₀₀ in g/kN, or SN)				0.2	1.2	0.3	0.6
RANGE (D _p /F ₀₀ in g/kN, or SN)				1.86-2.36	23.6-26.5	43.3-44	6.2-7.7

ACCESSORY LOADS

POWER EXTRACTION	0	(kW)	AT	-	POWER SETTINGS
STAGE BLEED	0	(% CORE FLOW)	AT	-	POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.6-98.2
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	0.00457-0.00743

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: CF6 Eval Engineering
 TEST LOCATION: Site IIIB, PTO Peebles
 TEST DATES: 13/01/1995-17/01/1995

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

REMARKS

1. Ref GE report TM95-17.
2. Engine S/N 704/233 & 704/234
3. 1862M39 combustor
4. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
5. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 e)

Compliance with Fuel Venting requirements: -

('x' if complies, 'PR' if pre-regulation, '-' if information is not available)